

ABSTRACT OF THE INVENTION

An injection mold inner core die is disclosed that uses no additional moving parts and decreases fabrication time required for injection molded pieces such as airbag covers.

The injection mold inner core die allows for cost effective revising and re-tooling of the

5 die. The inner core die includes one or more window mold members that extend from the surface of the inner core die. The window mold member is shaped to form a window in solidified injection mold material once the mold is closed. The window mold member

includes a pair of parallel ramps that provide a pair of inclined planes for separating

material contacting the surface of the inner core die. The inclined planes created by the

10 ramps allows the material to travel up the ramps and frees the material from the window mold member. The ramps run from the surface of the inner core die to the top of the

window mold member in a direction in which the molded piece is to be automatically

moved for removal from the inner core die. The window mold member may include a

boss positioned between the ramps to further assist in separating and lifting the material

15 away from the surface to free a window in the molded piece from the window mold member.